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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,629	11/14/2001	Yung-Fa Cheng	60603-300401	5166

7590

04/09/2004

PERKINS COLE  
101 JEFFERSON DRIVE  
MENLO PARK, CA 94025

EXAMINER
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GESESSE, TILAHUN

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 04/09/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/003,629

**Applicant(s)**

CHENG ET AL.

**Examiner**

Tilahun B Gesesse

**Art Unit**

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 November 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Specification***

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Murray (5,996,178).

As to claim 1, Murray discloses a mobile phone (100) with base detachable hinge structure (column 3, lines 26-29 and abstract and figure 3), comprising: a base unit (bottom housing 108) (column 2, lines 28-52 and figure 2), a display unit (204), which comprises a first hinge hole (3854) a first spindle (long rod 3810 of figure 3) a hinge structure which comprises a second hinge spindle to fit into the first hinge structure is attached to and detached from the base unit (108) by means of a fixing device (3820 of figure 3, and column 2 line 54-column 3, line 48) and a protection casing (knuckle 210) , which is formed by forming up the top protection casing with the root protection casing forming a second hinge hole into which the first hinge spindle fits joining up the protection casing with the display unit (column 5, lines 29-63 and figures 2-3).

As to claim 2, Murray discloses the fixing device is a screw (3808), passing through a screw hole on the base unit (3862), is fastened to the tooling hole on the hinge structure (figure 3 and column 2, lines 63-68 and column 5, line 64-column 6, line 6).

As to claim 3, Murray discloses the display unit further includes a Liquid Crystal Display (LCD) ((204) and a flange (3808), which is situated at one end of the display unit, having the first hinge hole and the first hinge spindle (figure 3).

As to claim 4, Murray discloses the flange and the display are formed in unity (figure 3).

As to claim 5, Murray discloses the mobile phone (100) further comprising a flexible circuit board (column 3, lines 49-56) , which is inside the protection casing (column 5, lines 43-58) , comprising a winding to enhance the flexibility of the flexible circuit board (column 5, lines 43-58 and figure 3).

As to claim 6, Murray discloses the flexible circuit board is made of a flexible material "plastic". (column 5, lines 43-58 and figure 3).

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takagi et al (5,303,291) disclose a portable telephone having a detachable functional module (abstract and figure 10).

Laine (5,827,082) discloses hinged device a base part (1) and pivoting part (2), and hinge structure (4,5,6) and second pair of hinge structure (8,9,10) (abstract).

Kudrna (5,640,690) discloses a hinge assembly for hingedly connecting a cover and a housing (abstract and figure 1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 703-308-5873. The examiner can be normally reached on flex time.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TBG

April 5, 2004

Art unit 2684

  
TILAHUN GESESSE  
PATENT EXAMINER